

Jonathan D Smirl

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,328
citations

361413

20
h-index

377865

34
g-index

50
all docs

50
docs citations

50
times ranked

866
citing authors

#	ARTICLE	IF	CITATIONS
1	Impaired cerebral haemodynamic function associated with chronic traumatic brain injury in professional boxers. <i>Clinical Science</i> , 2013, 124, 177-189.	4.3	111
2	Methodological comparison of active- and passive-driven oscillations in blood pressure; implications for the assessment of cerebral pressure-flow relationships. <i>Journal of Applied Physiology</i> , 2015, 119, 487-501.	2.5	98
3	Static autoregulation in humans: a review and reanalysis. <i>Medical Engineering and Physics</i> , 2014, 36, 1487-1495.	1.7	92
4	Losing the dogmatic view of cerebral autoregulation. <i>Physiological Reports</i> , 2021, 9, e14982.	1.7	73
5	Dynamic cerebral autoregulation is attenuated in young fit women. <i>Physiological Reports</i> , 2019, 7, e13984.	1.7	72
6	Evidence for hysteresis in the cerebral pressure-flow relationship in healthy men. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H701-H704.	3.2	69
7	Diminished dynamic cerebral autoregulatory capacity with forced oscillations in mean arterial pressure with elevated cardiorespiratory fitness. <i>Physiological Reports</i> , 2017, 5, e13486.	1.7	60
8	Heading in soccer increases serum neurofilament light protein and SCAT3 symptom metrics. <i>BMJ Open Sport and Exercise Medicine</i> , 2018, 4, e000433.	2.9	58
9	Sport-Related Concussion Alters Indices of Dynamic Cerebral Autoregulation. <i>Frontiers in Neurology</i> , 2018, 9, 196.	2.4	53
10	Dynamic cerebral autoregulation across the cardiac cycle during 8 hr of recovery from acute exercise. <i>Physiological Reports</i> , 2020, 8, e14367.	1.7	51
11	A Prospective Transcranial Doppler Ultrasound-Based Evaluation of the Acute and Cumulative Effects of Sport-Related Concussion on Neurovascular Coupling Response Dynamics. <i>Journal of Neurotrauma</i> , 2017, 34, 3097-3106.	3.4	41
12	Cerebral Pressure-Flow Relationship in Lowlanders and Natives at High Altitude. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 248-257.	4.3	40
13	Influence of Posture on the Regulation of Cerebral Perfusion. <i>Aviation, Space, and Environmental Medicine</i> , 2012, 83, 751-757.	0.5	37
14	Relationship Between Cerebral Blood Flow and Blood Pressure in Long-Term Heart Transplant Recipients. <i>Hypertension</i> , 2014, 64, 1314-1320.	2.7	35
15	Comparison of diurnal variation, anatomical location, and biological sex within spontaneous and driven dynamic cerebral autoregulation measures. <i>Physiological Reports</i> , 2020, 8, e14458.	1.7	35
16	Relationship between blood pressure and cerebral blood flow during supine cycling: influence of aging. <i>Journal of Applied Physiology</i> , 2016, 120, 552-563.	2.5	31
17	Where \hat{C}^{TM} s Waldo ? The utility of a complicated visual search paradigm for transcranial Doppler-based assessments of neurovascular coupling. <i>Journal of Neuroscience Methods</i> , 2016, 270, 92-101.	2.5	31
18	Comparison of cerebrovascular reactivity recovery following high-intensity interval training and moderate-intensity continuous training. <i>Physiological Reports</i> , 2020, 8, e14467.	1.7	26

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19	Differential Systolic and Diastolic Regulation of the Cerebral Pressure-Flow Relationship During Squat-Stand Manoeuvres. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 263-268.	1.0	24
20	The validity and reliability of ultra-short-term heart rate variability parameters and the influence of physiological covariates. <i>Journal of Applied Physiology</i> , 2021, 130, 1848-1867.	2.5	23
21	Systolic and Diastolic Regulation of the Cerebral Pressure-Flow Relationship Differentially Affected by Acute Sport-Related Concussion. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 303-308.	1.0	23
22	Effects of high-intensity intervals and moderate-intensity exercise on baroreceptor sensitivity and heart rate variability during recovery. <i>Applied Physiology, Nutrition and Metabolism</i> , 2020, 45, 1156-1164.	1.9	19
23	Utilization of the repeated squat-stand model for studying the directional sensitivity of the cerebral pressure-flow relationship. <i>Journal of Applied Physiology</i> , 2021, 131, 927-936.	2.5	18
24	An Acute Bout of Soccer Heading Subtly Alters Neurovascular Coupling Metrics. <i>Frontiers in Neurology</i> , 2020, 11, 738.	2.4	17
25	Reproducibility and diurnal variation of the directional sensitivity of the cerebral pressure-flow relationship in men and women. <i>Journal of Applied Physiology</i> , 2022, 132, 154-166.	2.5	16
26	Cerebral Autoregulation Is Disrupted Following a Season of Contact Sports Participation. <i>Frontiers in Neurology</i> , 2018, 9, 868.	2.4	15
27	What recording duration is required to provide physiologically valid and reliable dynamic cerebral autoregulation transfer functional analysis estimates?. <i>Physiological Measurement</i> , 2021, 42, 044002.	2.1	14
28	On the use and misuse of cerebral hemodynamics terminology using transcranial Doppler ultrasound: a call for standardization. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 323, H350-H357.	3.2	14
29	Resting and exercise cerebral blood flow in long-term heart transplant recipients. <i>Journal of Heart and Lung Transplantation</i> , 2012, 31, 906-908.	0.6	13
30	Temporal evolution of neurovascular coupling recovery following moderate- and high-intensity exercise. <i>Physiological Reports</i> , 2021, 9, e14695.	1.7	13
31	Does task complexity impact the neurovascular coupling response similarly between males and females?. <i>Physiological Reports</i> , 2021, 9, e15020.	1.7	10
32	Insufficient sampling frequencies skew heart rate variability estimates: Implications for extracting heart rate metrics from neuroimaging and physiological data. <i>Journal of Biomedical Informatics</i> , 2021, 123, 103934.	4.3	10
33	Neurovascular coupling on trial: How the number of trials completed impacts the accuracy and precision of temporally derived neurovascular coupling estimates. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2022, 42, 1478-1492.	4.3	10
34	Letter to the Editor: On the need of considering cardiorespiratory fitness when examining the influence of sex on dynamic cerebral autoregulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H1229-H1229.	3.2	9
35	The impact of high- and moderate-intensity exercise on near-point of convergence metrics. <i>Brain Injury</i> , 2021, 35, 248-254.	1.2	9
36	Directional sensitivity of the cerebral pressure-flow relationship in young healthy individuals trained in endurance and resistance exercise. <i>Experimental Physiology</i> , 2022, 107, 299-311.	2.0	9

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37	A Prospective Transcranial Doppler Ultrasound-Based Evaluation of the Effects of Repetitive Subconcussive Head Trauma on Neurovascular Coupling Dynamics. <i>Clinical Journal of Sport Medicine</i> , 2020, 30, S53-S60.	1.8	8
38	Dynamic cerebral autoregulation in young athletes following concussion. , 2016, 2016, 696-699.		7
39	An acute bout of controlled subconcussive impacts can alter dynamic cerebral autoregulation indices: a preliminary investigation. <i>European Journal of Applied Physiology</i> , 2022, 122, 1059-1070.	2.5	6
40	The validity and reliability of an open source biosensing board to quantify heart rate variability. <i>Heliyon</i> , 2021, 7, e07148.	3.2	5
41	Does oscillation size matter? Impact of added resistance on the cerebral pressureâ€flow Relationship in females and males. <i>Physiological Reports</i> , 2022, 10, e15278.	1.7	5
42	A History of Concussion Does Not Lead to an Increase in Ocular Near Point of Convergence. <i>International Journal of Sports Medicine</i> , 2018, 39, 682-687.	1.7	3
43	A Standardized Buffalo Concussion Treadmill Test After Sport-Related Concussion in Youth: Do ActiGraph Algorithms Matter?. <i>Journal of Athletic Training</i> , 2021, 56, 1300-1305.	1.8	3
44	Long-term heart transplant recipients: Heart rate related effects on augmented transfer function coherence during repeated squat-stand maneuvers in males. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R925-R937.	1.8	3
45	Sex differences in autonomic recovery following repeated sinusoidal resistance exercise. <i>Physiological Reports</i> , 2022, 10, e15269.	1.7	3
46	Influence of highâ€intensity interval training to exhaustion on the directional sensitivity of the cerebral pressureâ€flow relationship in young enduranceâ€trained men. <i>Physiological Reports</i> , 2022, 10, .	1.7	2
47	Early targeted heart rate aerobic exercise for sport-related concussion. <i>The Lancet Child and Adolescent Health</i> , 2021, 5, 769-771.	5.6	1